OIPE

RAW SEQUENCE LISTING   DATE: 07/24/2001
PATENT APPLICATION: US/09/895,814   TIME: 11:13:40

Input Set : A:\427c26.app.txt
Output Set: N:\CRF3\07242001\I895814.raw

```
 3 <110> APPLICANT: Xu, Jiangchun
 4         Dillon, Davin C.
 5         Mitcham, Jennifer L.
 6         Harlocker, Susan L.
 7         Jiang, Yuqiu
 8         Kalos, Michael D.
 9         Retter, Marc W.
10         Stolk, John A.
11         Day, Craig H.
12         Vedvick, Thomas S.
13         Carter, Darrick
14         Li, Samuel X.
15         Wang, Aijun
16         Skeiky, Yasir A.W.
17         Hepler, William T.
18         Henderson, Robert A.
19         Hural, John
20         McNeill, Patricia D.
21         Houghton, Raymond L.
22         Vinals de Bassols, Carlota
23         Foy, Teresa
24         Fanger, Gary R.
30 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
31         DIAGNOSIS OF PROSTATE CANCER
33 <130> FILE REFERENCE: 210121.427C26
35 <140> CURRENT APPLICATION NUMBER: US/09/895,814
36 <141> CURRENT FILING DATE: 2001-06-29
38 <160> NUMBER OF SEQ ID NOS: 990
40 <170> SOFTWARE: FastSEQ for Windows Version 3.0
42 <210> SEQ ID NO: 1
43 <211> LENGTH: 814
44 <212> TYPE: DNA
45 <213> ORGANISM: Homo sapien
47 <220> FEATURE:
48 <221> NAME/KEY: misc_feature
49 <222> LOCATION: (1)...(814)
50 <223> OTHER INFORMATION: n = A,T,C or G
52 <400> SEQUENCE: 1
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54  atcaaatctg agggttgtct ggaggacttc aatacacctc cccccatagt gaatcagctt     120
55  ccaggggtc cagtccctct ccttacttca tccccatccc atgccaaagg aagaccctcc      180
56  ctccttggct cacagccttc tctaggcttc ccagtgcctc caggacagag tgggttatgt     240
57  tttcagctcc atccttgctg tgagtgtctg gtgcgttgtg cctccagctt ctgctcagtg     300
58  cttcatggac agtgtccagc acatgtcact ctccactctc tcagtgtgga tccactagtt     360
59  ctagagcggc cgccaccgcg gtggagctcc agcttttgtt ccctttagtg agggttaatt     420
60  gcgcgcttgg cgtaatcatg gtcataactg tttcctgtgt gaaattgtta tccgctcaca     480
61  attccacaca acatacgagc cggaagcata aagtgtaaag cctggggtgc ctaatgagtg     540
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W--> 62  anctaactca cattaattgc gttgcgctca ctgnccgctt tccagtcngg aaaactgtcg     600
W--> 63  tgccagctgc attaatgaat cggccaacgc ncggggaaaa gcggtttgcg ttttgggggc     660
W--> 64  tcttccgctt ctcgctcact nantcctgcg ctcggtcntt cggctgcggg gaacggtatc     720
W--> 65  actcctcaaa ggnggtatta cggttatccn naaatcnggg gatacccngg aaaaaanttt     780
W--> 66  aacaaaaggg cancaaaggg cngaaacgta aaaa                                 814
     68  <210> SEQ ID NO: 2
     69  <211> LENGTH: 816
     70  <212> TYPE: DNA
     71  <213> ORGANISM: Homo sapien
     73  <220> FEATURE:
     74  <221> NAME/KEY: misc_feature
     75  <222> LOCATION: (1)...(816)
     76  <223> OTHER INFORMATION: n = A,T,C or G
     78  <400> SEQUENCE: 2
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     80  ttcatggctg ttggagcaat agaaccccag ttctacgagc tgctgatcaa aggacttgga     120
     81  ctaaagtctg atgaacttcc caatcagatg agcatggatg attggccaga aatgaagaag     180
     82  aagtttgcag atgtatttgc aaagaagacg aaggcagagt ggtgtcaaat ctttgacggc     240
     83  acagatgcct gtgtgactcc ggttctgact tttgaggagg ttgttcatca tgatcacaac     300
     84  aaggaacggg gctcgtttat caccagtgag gagcaggacg tgagcccccg ccctgcacct     360
     85  ctgctgttaa acacccccagc catcccttct ttcaaaaggg atccactagt tctagaagcg     420
     86  gccgccaccg cggtggagct ccagcttttg ttccctttag tgaggggttaa ttgcgcgctt     480
     87  ggcgtaatca tggtcatagc tgtttcctgt gtgaaattgt tatccgctca caattccccc     540
W--> 88  aacatacgag ccggaacata aagtgttaag cctggggtgc ctaatgantg agctaactcn     600
W--> 89  cattaattgc gttgcgctca ctgcccgctt tccagtcggg aaaactgtcg tgccactgcn     660
W--> 90  ttantgaatc ngccaccccc cgggaaaagg cggttgcntt ttgggcctct tccgctttcc     720
W--> 91  tcgctcattg atcctngcnc ccggtcttcg gctgcggnga acggttcact cctcaaaggc     780
W--> 92  ggtntnccgg ttatccccaa acngggata cccnga                                816
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     95  <211> LENGTH: 773
     96  <212> TYPE: DNA
     97  <213> ORGANISM: Homo sapien
     99  <220> FEATURE:
    100  <221> NAME/KEY: misc_feature
    101  <222> LOCATION: (1)...(773)
    102  <223> OTHER INFORMATION: n = A,T,C or G
    104  <400> SEQUENCE: 3
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    106  tcctgctcct cactggtgat aaacgagccc cgttccttgt tgtgatcatg atgaacaacc     120
    107  tcctcaaaag tcagaaccgg agtcacacag gcatctgtgc cgtcaaagat ttgacaccac     180
    108  tctgccttcg tcttctttgc aaatacatct gcaaacttct tcttcatttc tggccaatca     240
W--> 109  tccatgctca tctgattggg aagttcatca gactttagtc canntccttt gatcagcagc     300
    110  tcgtagaact ggggttctat tgctccaaca gccatgaatt ccccatctgc tgtcctgtaa     360
    111  gtcgtataga aaggtgctcc accatccaac atgttctgtc ctcgaggggg ggcccggtac     420
W--> 112  ccaattcgcc ctatantgag tcgtattacg cgcgctcact ggccgtcgtt ttacaacgtc     480
    113  gtgactggga aaaccctggg cgttaccaac ttaatcgcct tgcagcacat ccccctttcg     540
W--> 114  ccagctgggc gtaatancga aaaggcccgc accgatcgcc cttccaacag ttgcgcacct     600
W--> 115  gaatgggnaa atgggacccc cctgttaccg cgcattnaac ccccgcnggg tttngttgtt     660
W--> 116  accccacnt nnaccgctta cactttgcca gcgccttanc gcccgctccc tttcnccttt     720
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W--> 117  cttcccttcc tttcncnccn ctttcccccg gggtttcccc cntcaaaccc cna        773
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     120  <211> LENGTH: 828
     121  <212> TYPE: DNA
     122  <213> ORGANISM: Homo sapien
     124  <220> FEATURE:
     125  <221> NAME/KEY: misc_feature
     126  <222> LOCATION: (1)...(828)
     127  <223> OTHER INFORMATION: n = A,T,C or G
     129  <400> SEQUENCE: 4
     130  cctcctgagt cctactgacc tgtgctttct ggtgtggagt ccagggctgc taggaaaagg      60
     131  aatgggcaga cacaggtgta tgccaatgtt tctgaaatgg gtataatttc gtcctctcct     120
     132  tcggaacact ggctgtctct gaagacttct cgctcagttt cagtgaggac acacacaaag     180
     133  acgtgggtga ccatgttgtt tgtggggtgc agagatggga ggggtggggc ccaccctgga     240
     134  agagtggaca gtgacacaag gtggacactc tctacagatc actgaggata agctggagcc     300
W--> 135  acaatgcatg aggcacacac acagcaagga tgacnctgta aacatagccc acgctgtcct     360
W--> 136  gngggcactg ggaagcctan atnaggccgt gagcanaaag aaggggagga tccactagtt     420
W--> 137  ctanagcggc cgccaccgcg gtgganctcc ancttttgtt ccctttagtg agggttaatt     480
W--> 138  gcgcgcttgg cntaatcatg gtcatanctn tttcctgtgt gaaattgtta tccgctcaca     540
W--> 139  attccacaca acatacganc cggaaacata aantgtaaac ctggggtgcc taatgantga     600
W--> 140  ctaactcaca ttaattgcgt tgcgctcact gcccgctttc caatcnggaa acctgtcttg     660
W--> 141  ccncttgcat tnatgaatcn gccaaccccc ggggaaaagc gtttgcgttt tgggcgctct     720
W--> 142  tccgcttcct cnctcantta ntccctncnc tcggtcattc cggctgcngc aaaccggttc     780
W--> 143  accncctcca aaggggtat tccggtttcc ccnaatccgg gganancc                  828
     145  <210> SEQ ID NO: 5
     146  <211> LENGTH: 834
     147  <212> TYPE: DNA
     148  <213> ORGANISM: Homo sapien
     150  <220> FEATURE:
     151  <221> NAME/KEY: misc_feature
     152  <222> LOCATION: (1)...(834)
     153  <223> OTHER INFORMATION: n = A,T,C or G
     155  <400> SEQUENCE: 5
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     157  agttttaatt gcatccaaag tactaacaaa aactctagca atcaagaatg gcagcatgtt     120
     158  attttataac aatcaacacc tgtggctttt aaaatttggt tttcataaga taatttatac     180
     159  tgaagtaaat ctagccatgc ttttaaaaaa tgctttaggt cactccaagc ttggcagtta     240
     160  acatttggca taaacaataa taaaacaatc acaatttaat aaataacaaa tacaacattg     300
     161  taggccataa tcatatacag tataaggaaa aggtggtagt gttgagtaag cagttattag     360
     162  aatagaatac cttggcctct atgcaaatat gtctagacac tttgattcac tcagccctga     420
     163  cattcagttt tcaaagtagg agacaggttc tacagtatca ttttacagtt tccaacacat     480
     164  tgaaaacaag tagaaaatga tgagttgatt tttattaatg cattacatcc tcaagagtta     540
     165  tcaccaaccc ctcagttata aaaaattttc aagttatatt agtcatataa cttggtgtgc     600
     166  ttattttaaa ttagtgctaa atggattaag tgaagacaac aatggtcccc taatgtgatt     660
W--> 167  gatattggtc attttacca gcttctaaat ctnaactttc aggcttttga actggaacat     720
W--> 168  tgnatnacag tgttccanag ttncaaccta ctggaacatt acagtgtgct tgattcaaaa     780
W--> 169  tgttattttg ttaaaaatta aattttaacc tggtggaaaa ataatttgaa atna          834
     171  <210> SEQ ID NO: 6
     172  <211> LENGTH: 818
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    174 <213> ORGANISM: Homo sapien
    176 <220> FEATURE:
    177 <221> NAME/KEY: misc_feature
    178 <222> LOCATION: (1)...(818)
    179 <223> OTHER INFORMATION: n = A,T,C or G
    181 <400> SEQUENCE: 6
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    183  aaccacatct acaaaatgcc agtatcaggc ggcggcttcg aagccaaagt gatgtttgga    120
    184  tgtaaagtga aatattagtt ggcggatgaa gcagatagtg aggaaagttg agccaataat    180
    185  gacgtgaagt ccgtggaagc ctgtggctac aaaaaatgtt gagccgtaga tgccgtcgga    240
    186  aatggtgaag ggagactcga agtactctga ggcttgtagg agggtaaaat agagacccag    300
    187  taaaattgta ataagcagtg cttgaattat ttggtttcgg ttgtttttcta ttagactatg    360
    188  gtgagctcag gtgattgata ctcctgatgc gagtaatacg gatgtgttta ggagtgggac    420
    189  ttctagggga tttagcgggg tgatgcctgt tggggccag tgccctccta gttgggggggt    480
    190  aggggctagg ctggagtggt aaaaggctca gaaaaatcct gcgaagaaaa aaacttctga    540
    191  ggtaataaat aggattatcc cgtatcgaag gccttttttgg acaggtggtg tgtggtggcc    600
    192  ttggtatgtg ctttctcgtg ttacatcgcg ccatcattgg tatatggtta gtgtgttggg    660
W--> 193  ttantanggc ctantatgaa gaactttttgg antggaatta aatcaatngc ttggccggaa    720
W--> 194  gtcattanga nggctnaaaa ggccctgtta ngggtctggg ctnggtttta cccnacccat    780
W--> 195  ggaatncncc ccccggacna ntgnatccct attcttaa                             818
    197 <210> SEQ ID NO: 7
    198 <211> LENGTH: 817
    199 <212> TYPE: DNA
    200 <213> ORGANISM: Homo sapien         .
    202 <220> FEATURE:
    203 <221> NAME/KEY: misc_feature
    204 <222> LOCATION: (1)...(817)
    205 <223> OTHER INFORMATION: n = A,T,C or G
    207 <400> SEQUENCE: 7
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    209  cgggccctat ttcaaagatt tttaggggaa ttaattctag gacgatgggt atgaaactgt    120
    210  ggtttgctcc acagatttca gagcattgac cgtagtatac ccccggtcgt gtagcggtga    180
    211  aagtggtttg gtttagacgt ccgggaattg catctgtttt taagcctaat gtggggacag    240
W--> 212  ctcatgagtg caagacgtct tgtgatgtaa ttattatacn aatgggggct tcaatcggga    300
    213  gtactactcg attgtcaacg tcaaggagtc gcaggtcgcc tggttctagg aataatgggg    360
    214  gaagtatgta ggaattgaag attaatccgc cgtagtcggt gttctcctag gttcaatacc    420
    215  attggtggcc aattgatttg atggtaaggg gagggatcgt tgaactcgtc tgttatgtaa    480
W--> 216  aggatnccct ngggatggga aggcnatnaa ggactangga tnaatggcgg gcangatatt    540
W--> 217  tcaaacngtc tctanttcct gaaacgtctg aaatgttaat aanaattaan tttngttatt    600
W--> 218  gaatnttnng gaaaagggct tacaggacta gaaaccaaat angaaaanta atnntaangg    660
W--> 219  cnttatcntn aaaggtnata accnctccta tnatcccacc caatngnatt ccccacncnn    720
W--> 220  acnattggat ncccanttc canaaanggc cnccccccgg tgnanccnc cttttgttcc    780
W--> 221  cttnantgan ggttattcnc ccctngcntt atcancc                             817
    223 <210> SEQ ID NO: 8
    224 <211> LENGTH: 799
    225 <212> TYPE: DNA
    226 <213> ORGANISM: Homo sapien
    228 <220> FEATURE:
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Input Set : A:\427c26.app.txt
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      230 <222> LOCATION: (1)...(799)
      231 <223> OTHER INFORMATION: n = A,T,C or G
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      235   cataaggaga actttctgct ggcacgcgct agggacaagc gggagagcga ctccgagcgt   120
      236   ctgaagcgca cgtcccagaa ggtggacttg gcactgaaac agctgggaca catccgcgag   180
      237   tacgaacagc gcctgaaagt gctggagcgg gaggtccagc agtgtagccg cgtcctgggg   240
W--> 238   tgggtggccg angcctganc cgctctgcct tgctgccccc angtgggccg ccacccctg    300
W--> 239   acctgcctgg gtccaaacac tgagccctgc tggcggactt caagganaac ccccacangg   360
W--> 240   ggatttgct cctanantaa ggctcatctg ggcctcggcc cccccacctg gttggccttg    420
W--> 241   tctttgangt gagccccatg tccatctggg ccactgtcng gaccaccttt ngggagtgtt   480
W--> 242   ctccttacaa ccacannatg cccggctcct cccggaaacc antcccancc tgngaaggat   540
W--> 243   caagncctgn atccactnnt nctanaaccg gccnccnccg cngtggaacc cnccttntgt   600
W--> 244   tcctttctnt tnagggttaa tnncgccttg gccttnccan ngtcctcnc nttttccnnt   660
W--> 245   gttnaaattg ttangcnccc nccnntcccn cnncnncnan cccgaccccnn annttnnann   720
W--> 246   ncctgggggt nccnncngat tgacccnncc nccctntant tgcnttnggg nncnntgccc   780
W--> 247   ctttccctct ngggannncg                                              799
      249 <210> SEQ ID NO: 9
      250 <211> LENGTH: 801
      251 <212> TYPE: DNA
      252 <213> ORGANISM: Homo sapien
      254 <220> FEATURE:
      255 <221> NAME/KEY: misc_feature
      256 <222> LOCATION: (1)...(801)
      257 <223> OTHER INFORMATION: n = A,T,C or G
      259 <400> SEQUENCE: 9
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W--> 261   taangatgac actcccaaag gtggtcctga cagtggccca gatggacatg gggctcacct   120
      262   caaggacaag gccaccaggt gcgggggccg aagcccacat gatccttact ctatgagcaa   180
W--> 263   aatcccctgt gggggcttct ccttgaagtc cgccancagg gctcagtctt tggacccang   240
W--> 264   caggtcatgg ggttgtngnc caactggggg ccncaacgca aaanggcnca gggcctcngn   300
W--> 265   cacccatccc angacgcggc tacactnctg gacctcccnc tccaccactt tcatgcgctg   360
W--> 266   ttcntacccg cgnatntgtc ccanctgttt cngtgccnac tccancttct nggacgtgcg   420
W--> 267   ctacatacgc ccggantcnc nctcccgctt tgtccctatc cacgtnccan caacaaattt   480
W--> 268   cnccntantg caccnattcc cacntttnnc agntttccnc nncgngcttc cttntaaaag   540
W--> 269   ggttgancccc cggaaaatnc cccaagggg ggggccngg tacccaactn ccccctnata   600
W--> 270   gctgaantcc ccatnaccnn gnctcnatgg anccntcccnt tttaannacn ttctnaactt   660
W--> 271   gggaanancc ctcgnccntn cccccnttaa tcccnccttg cnangnncnt ccccccnntcc   720
W--> 272   ncccnnntng gcntntnann cnaaaaaggc ccnnnancaa tctcctnncn cctcanttcg   780
W--> 273   ccanccctcg aaatcggccn c                                            801
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      276 <211> LENGTH: 789
      277 <212> TYPE: DNA
      278 <213> ORGANISM: Homo sapien
      280 <220> FEATURE:
      281 <221> NAME/KEY: misc_feature
      282 <222> LOCATION: (1)...(789)
      283 <223> OTHER INFORMATION: n = A,T,C or G
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Use of n and/or Xaa has been detected in the Sequence Listing.
Review the Sequence Listing to insure a corresponding
explanation is presented in the <220> to <223> fields of
each sequence using n or Xaa.

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Input Set : A:\427c26.app.txt
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L:35  M:270 C: Current Application Number differs, Wrong Format
L:62  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:63  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:64  M:341 W: (46) "n" or "Xaa" used, for SEQ ID: 1
L:65  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:66  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:88  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:89  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:90  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:91  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:92  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:115 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:143 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:221 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:239 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:242 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:245 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:246 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
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L:247 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:263 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
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